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(71) Applicant *(for all designated States except US)*: **DAPROX AB** [SE/SE]; P.O. Box 120, S-127 23 Skärholmen (SE).

(72) Inventor; and
(75) Inventor/Applicant *(for US only)*: **ÅKERBLOM, Bengt** [SE/SE]; Vårby Allé 23, S-143 40 Vårby (SE).

(74) Agent: **ALBIHNS STOCKHOLM AB**; P.O. Box 5581, S-114 85 Stockholm (SE).

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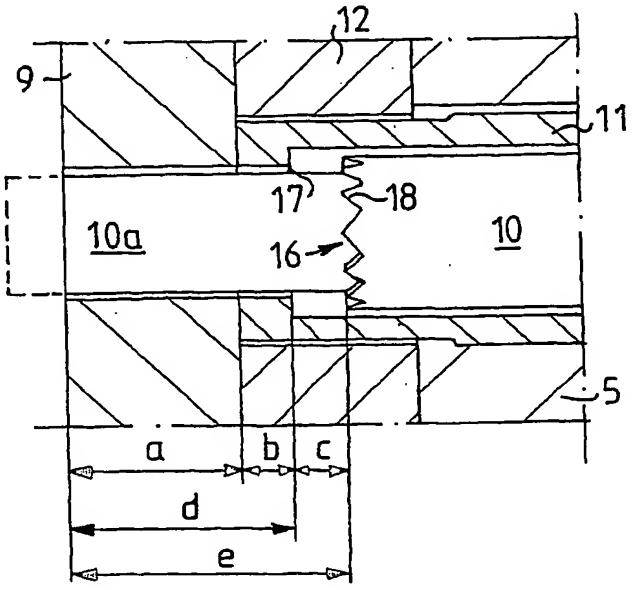
(54) Title: A METHOD AND A SENSOR DEVICE FOR MEASURING THE DISTANCE BETWEEN A STATOR AND AN OPPOSING ROTOR



(57) Abstract: A sensor device for measuring distance between a stator and a rotor in a machine is of the magnetic type and is intended to be mounted in the stator in order to interact with an opposing surface on the rotor. A sensor body (10) can be moved axially in a housing (11) mounted in the stator by means of an operating mechanism (13) and has a stop (16) at a predetermined distance (e) from its end surface designed to interact with a corresponding stop (17) inside the housing. This distance (e) exceeds the distance (d) between the stop (17) in the hosing and the end of the sensor body (10) by a predetermined distance (c) when the sensor body is in its normal measuring position. These stops (16, 17) make possible a particularly accurate calibration of the sensor device.

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